

Notice of Allowability	Application No.	Applicant(s)	
	10/608,204	BAYARDO ET AL.	
	Examiner	Art Unit	
	Jason Mitchell	2193	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to a request for continuation filed 1/20/09.
2. ☒ The allowed claim(s) is/are 32,33,36 and 37.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>20090327-A</u> . 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other ____. |
|--|--|

/Jason Mitchell/
Examiner, Art Unit 2193

/Lewis A. Bullock, Jr./
Supervisory Patent Examiner, Art Unit 2193

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Rook (#40,790) on 3/26/09.

The application has been amended as follows:

Claims 10-12, 14-17, 19, and 23-24: (Canceled)

Claim 32: A system for accessing source code shared over a network, comprising:

at least one computer hardware device;

an Integrated Development Environment (IDE), wherein the IDE includes classification-based navigation and content dependent searching for code patterns;

a context classifier for analyzing working code on the receiving node to identify a context of the working code, and for assigning at least one predetermined category to the working code based on the identified context, wherein the categories include comments, type names and method names;

a query generator for querying a directory using the at least one predetermined category assigned to the working code to identify at least one predetermined category assigned to source code that at least one of matches or corresponds to the ~~assigned~~ category assigned to the working code, wherein the query generator returns a list of categories and selects at least one category from the list of categories;

a code pattern requestor for retrieving the source code from a sharing node in the network to the receiving node based on the at least one category selected from the list of categories assigned to the source code, wherein the retrieving comprises querying a search engine corresponding to the sharing node to retrieve the source code;

a code pattern classifier for analyzing the source code on the sharing node to identify a set of code patterns, and for assigning the at least one predetermined category to the source code based on the identified set of code patterns, wherein code pattern information that is based on the analysis and assignment is stored in the directory;

a source code indexer for selectively indexing the source code, wherein the source code indexer comprises:

a programming language recognizer for recognizing at least one programming language of the source code and analyzing sections of the source code;

a selective code content indexer for indexing relevant portions of the source code based on the at least one programming language,

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wherein the relevant portions include comments, type names and method names;

a dependency graph indexer for recognizing and indexing at least one source code dependency corresponding to the source code;

a code type hierarchy recognizer for recognizing a set of code type hierarchies associated with the source code; and

an associated code type indexer for indexing the a code types in the recognized set of code type hierarchies; and

a code sharing notifier for notifying a set of other nodes in the network of the availability of the source code.

Claim 36: A computer readable memory medium storing a program product for accessing source code shared over a network, ~~which when executed comprising~~ comprising:

program code for analyzing working code on the receiving node to identify a context of the working code, and for assigning at least one predetermined category to the working code based on the identified context, wherein the categories include comments, type names and method names;

program code for querying a directory using the at least one predetermined category assigned to the working code to identify at least one predetermined category assigned to source code that at least one of matches or corresponds to the ~~assigned category~~ assigned to the working code;

program code for returning a list of categories;

program code for selecting at least one category from the list of categories;

program code for retrieving the source code from a sharing node in the network to the receiving node based on the at least one category selected from the list of categories, wherein the retrieving comprises querying a search engine corresponding to the sharing node to retrieve the source code;

program code for analyzing the source code on the sharing node to identify a set of code patterns, and for assigning the at least one predetermined category to the source code based on the identified set of code patterns, wherein code pattern information that is based on the analysis and assignment is stored in the directory;

program code for selectively indexing the source code, wherein the program code for selectively indexing comprises:

program code for recognizing at least one programming language of the source code;

program code for analyzing sections of the source code;

program code for indexing relevant portions of the source code based on the at least one programming language, wherein the relevant portions include comments, type names and method names;

program code for recognizing and indexing at least one source code dependency corresponding to the source code;

program code for recognizing a set of code type hierarchies associated with the source code;

program code for indexing the code types in the recognized set of code type hierarchies; and

program code for notifying a set of other nodes in the network of the availability of the source code; and

wherein the program product operates in an Integrated Development Environment (IDE) which includes classification-based navigation and content dependent searching for code patterns.

Specification pg. 10, par. [024]:

[024] As shown, nodes 12A-B generally comprise central processing units (CPUs) 14A-B, memories 16A-B, buses 18A-B, input/output (I/O) interfaces 20A-B, external devices/resources 22A-B and indexes 24A-B. CPUs 14A-B may comprise a single processing unit, or be distributed across one or more processing units in one or more locations, e.g., on a client and server. Memories 16A-B may comprise any known type of data storage ~~and/or transmission media~~, including magnetic media, optical media, random access memory (RAM), read-only memory (ROM), a data cache, a data object, etc. Moreover, similar to CPUs 14A-B, memories 16A-B may reside at a single physical location, comprising one or more types of data storage, or be distributed across a plurality of physical systems in various forms.

The following is an examiner's statement of reasons for allowance:

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The closest prior art (US 2004/0098447 to Verbeke; US 2003/0088571 to Ekkel; US 4,931,928 to Greenfeld) does not disclose or suggest the claimed limitations as argued on pp. 18-20 of the applicants response filed 1/20/09.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Mitchell whose telephone number is (571)272-3728. The examiner can normally be reached on Monday-Thursday and alternate Fridays 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bullock Lewis can be reached on (571) 272-3759. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jason Mitchell/
Examiner, Art Unit 2193

/Lewis A. Bullock, Jr./
Supervisory Patent Examiner, Art Unit 2193